

STN Karlsruhe

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 ACCESSION NUMBER: 1992-009021 [02] WPIDS
 CROSS REFERENCE: 1990-342973 [46]
 DOC. NO. NON-CPI: N1992-006934
 TITLE: Flat heat insulating moulded panel - comprises fine water-absorbent powder or fibres in two-part casing of symmetrical configuration.
 DERWENT CLASS: L02 P56 Q34 Q43 Q64 Q67 Q75
 INVENTOR(S): REUTER, R; SEXTL, G; STRACK, H; SEXTI, G; RANTER, R; FUSS, I; KLEINSCHMIT, P; SCHWARZ, R
 PATENT ASSIGNEE(S): (DEGS) DEGUSSA AG
 COUNTRY COUNT: 17
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
EP 463311	A	19920102	(199202)*		27		<--
R: AT BE CH DE ES FR GB IT LI LU NL SE							
DE 4019870	A	19920109	(199203)				
JP 04231795	A	19920820	(199241)			F16L059-04	
HU 62074	T	19930329	(199316)			F16L059-00	
EP 463311	B1	19930915	(199337)	GE	29	E04B001-80	<--
R: AT BE CH DE DK ES FR GB IT LI LU NL SE							
PT 98038	A	19930831	(199338)			F16L059-00	
DE 59100376	G	19931021	(199343)			E04B001-80	
ES 2044642	T3	19940101	(199405)			E04B001-80	
US 5316816	A	19940531	(199421)		17	B32B001-06	
HU 214844	B	19980628	(199840)			F16L059-00	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 463311	A	EP 1991-106109	19910417
DE 4019870	A	DE 1990-4019870	19900622
JP 04231795	A	JP 1991-149059	19910621
HU 62074	T	HU 1991-2088	19910621
EP 463311	B1	EP 1991-106109	19910417
PT 98038	A	PT 1991-98038	19910620
DE 59100376	G	DE 1991-500376	19910417
		EP 1991-106109	19910417
ES 2044642	T3	EP 1991-106109	19910417
US 5316816	A	US 1990-520215	19900508
		US 1991-719365	19910624
		US 1991-799726	19911122
		US 1993-7129	19930122
HU 214844	B	HU 1991-2088	19910621

FILING DETAILS:

PATENT NO	KIND	PATENT NO
DE 59100376	G	Based on EP 463311
ES 2044642	T3	Based on EP 463311
US 5316816	A	EP 396961
HU 214844	B	Previous Publ. HU 62074

PRIORITY APPLN. INFO: DE 1990-4019870 19900622; DE 1989-3915170 19890510

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REFERENCE PATENTS: DE 3915170; EP 190582; US 2745173; US 3302358; US 3790243; US 4444821

INT. PATENT CLASSIF.:

MAIN: B32B001-06; E04B001-80; F16L059-00; F16L059-04

SECONDARY: B23P013-00; B32B005-16; B65D081-38; F25D023-06

BASIC ABSTRACT:

EP 463311 A UPAB: 19970716

The pref. flat panel for heat-insulation, contains finely divided powdery or fibrous material. The latter has a water-absorbption capacity of 4 percent to 50 percent wt. at 23 deg.C and 85 percent relative humidity. The material is enclosed in a casing in two symmetrical parts, the first one metal-free and deep-drawn, completely filled with the material.

The second cover part can contain metal and be flat, joined to the first one to form a gas- and water-vapour-proof seal. They give a permeability to water between 0 and 0.2 g/zq.m/d at the above temp. and humidity, while that for N₂, O₂ and Co₂ is up to 0.3 CuCm sq.m/d/bar. Water can be absorbed to between 2 percent and 15 percent wt. without reducing heat conductivity by more than 25 percent.

ADVANTAGE - Long service life, without heat bridges. @ (27pp

Dwg.No.0/4)

FILE SEGMENT: CPI GMPI

FIELD AVAILABILITY: AB

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